DAYTON ELECTROPLATE SITE DISPOSAL SUMMARY

WASTESTREAM	AMOUNT	TRANSPORTATION & DISPOSAL	
Chromic Acid	6,840 gal.	2/20/97	(Complete)
Caustic Liquid	27,582 gal.	2/24/97	(Complete)
Base Neutral Liquid	28,179 gal.	2/12/97-present	
Flammable Solid	4 drums	3/6/97	(Complete)
Flammable Liquid	3,291 gal.	3/4/97	(Complete)
Lab Pack (Mercury)	5 gal.	3/7/97	(Complete)
Filter Sludge	12 yd.	2/27/97	(Complete)
Sulfuric Acid	660 gal.	2/20/97	(Complete)
Nitric Acid	55 gal.	2/20/97	(Complete)
Sodium Hydroxide	1,155 gal.	2/20/97	(Complete)
Sodium Hypochlorite	660 gal.	2/20/97	(Complete)
Hydrochloric Acid	1,155 gal.	2/20/97	(Complete)
Transformers	4	2/5/97	(Complete)
Cyanide Solid	110 gal	3/17/97.	(Complete)
Potassium Permanganate	55 gal.	3/17/97	(Complete)
Hydrogen Peroxide	110 gal.	3/17/97	(Complete)
F007 Debris	275 yd	2/12/97-present	

U.S. EPA DAYTON ELECTROPLATE
5001-05-411

Waste Profile/Approvals Summary

WASTE STREAM	EST. VOLUMES	DISPOSAL FACILITY	DATE PROFILED	DATE APPROVED	DATE SHIPPED	UNIT PRICE
PPE, General Debris Non-Hazardous	60 cubic yards	Stony Hollow RDF Dayton, Ohio	1-13-97	1-14-97 #152347		$[redacted]0/cu yd trans. $[redacted]/load
Vats, Lines, Debris, Crushed Drums	660 cubic yards	Env. Quality Co. Belleville, Michigan	1-16-97	1-21-97 #012197EA	2/12,	$[redacted]0/yard trans. $[redacted]load
Non-PCB Transformers	12,000 lbs.	S.D. Meyers Tallmadge, Ohio	1-21-97	1-23-97 #47636	2/5/97	[redacted]5/lb. trans. $700
Chromic Acid Solution	8,000 gallons	1. Envirite Corp. Canton, Ohio	2-6-97	2-13-97 #C4316		$[redacted]/gallon trans. [redacted]/load
		2. CWM Vickery, Ohio	2-6-97	2-20-97 #4487825	2/20	[redacted]/galllon $[redacted]/load
Caustic Liquids	30,000 gallons	***1. Dynecol, Inc. Detroit, Michigan***	2-6-97	2-10-97 #3983	2/20, 2/21	[redacted]/gallon trans. [redacted]/load
		2. Envirite Corp. Canton, Ohio	2-6-97	2-17-97 #C4317	2/20, 2/21	$[redacted]gallon $[redacted]load
		3. CWM Vickery, Ohio	2-6-97	2-20-97 #4487688		$[redacted]gallon $[redacted]load
Base/Neutral Liquids	35,000 gallons	***1. Dynecol, Inc. Detroit, Michigan***	2-6-97	2-10-97 #3984	2/14,	$[redacted]/gallon trans. $[redacted]/load
		2. Envirite Corp. Canton, Ohio	2-6-97	2-17-97 #C4318		$[redacted]gallon [redacted]/load
		3. CWM Vickery, Ohio	2-6-97	2-20-97 #4487687		$[redacted]gallon $[redacted]load
Flammable Liquids	3,291 gallons	Research Oil Cleveland, Ohio	2-6-97	2-24-97 23382-15	3/4	[redacted]/gallon [redacted]/load
Cyanide Solids	2 x 55 gal. drums	Envirite Corp. Canton, Ohio Cyanokem Detroit, MI	2-6-97	3-10-97 CS2423 w-28815		$[redacted]/drum
Potassium Permang.	1 x 55 gal. drums	1. Env. Quality Co. Belleville, Michigan	2-6-97	2-14-97 #021397TA		$[redacted]/drum [redacted]/drum
		2. Dynecol, Inc. Detroit, Michigan	2-14-97	2-25-97 104087		$[redacted]/drum Transportation price not included
Flammable Solids	4 x 55 gal. drums	Michigan Recovery Romulus, Michigan	2-6-97	2-17-97 #0209371	3/6	$[redacted]/drum [redacted]drum
Mercury Lab Packs	1 x 5 gal. pails	Mercury Refining Albany, New York	2-20-97	2-20-97 RIE-10-97	3/7	$[redacted] $[redacted]
Hydrogen Peroxide	2 x 55 gal. drums	Dynecol, Inc. Detroit, Michigan	2-10-97	2-11-97 #104071		$[redacted]00/drum trans. $[redacted]/drum

*Sodium Hydrosulfite	1 x 55	Envirite Corp Canton, Ohio	3-7-97	Approval by 3-14-97		
F006 Filter Cake	10 tons	Envirite Corp. Canton, Ohio	2-10-97	2-21-97 CS2393	2/27	[redacted]/ton [redacted]

1 line Ex 4

Transportation for the remaining drums:

DYNECOL
2 drums of Hydrogen Peroxide
1 drums of Potassium Permanganate

CYANOKEM
2 drums of Cyanide Solids

ENVIRITE
1 drum of Sodium Hydrosulfite

TRANSPORTER

Dollar Amount Ex. 4

Dynecol called and can transport only their drums on Monday Morning. [redacted]/Load, They have acid drums on truck so the cyanide drums cannot go.
Metropolitan Environmental - No truck available this week
Select Transport - No response
Tri-State Motors - No trucks available this week [redacted] for the load but the Sodium Hydrosulfite will have to go seperated and wait for a truck with compatible waste.

Dollar Amount Ex. 4

U.S. EPA DAYTON ELECTROPLATE
5001-05-411

Waste Profile/Approvals Summary

WASTE STREAM	EST. VOLUMES	DISPOSAL FACILITY	DATE PROFILED	DATE APPROVED	UNIT PRICE
PPE, General Debris Non-Hazardous	60 cubic yards	Stony Hollow RDF Dayton, Ohio	1-13-97	1-14-97 #152347	$18.50/cu yd trans. $160/load
Vats, Lines, Debris, Crushed Drums	660 cubic yards	The Env. Quality Co. Belleville, Michigan	1-16-97	1-21-97 #012197EA	$120.00/yard trans. $780/load
Non-PCB Transformers	12,000 lbs.	S.D. Meyers Tallmadge, Ohio	1-21-97	1-23-97 #47636	$0.05/lb. trans. $700
Chromic Acid Solution	8,000 gallons	Envirite Corp. Canton, Ohio	2-6-97	2-13-97 #C4316	$0.38/gal. trans. $675/load
Caustic Liquids	72,000 gallons	Dynecol, Inc. Detroit, Michigan	2-6-97	2-10-97 #3983	$0.25/gallon trans. $750/load
Base/Neutral Liquids	54,000 gallons	Dynecol, Inc. Detroit, Michigan	2-6-97	2-10-97 #3984	$0.12/gallon trans. $750/load
Flammable Liquids	12 x 55 gal. drums		2-6-97		
Cyanide Solids	2 x 55 gal. drums		2-6-97		
Potassium Permang.	2 x 55 gal. drums	ER	2-6-97	2-14-97 021397TE $200/Drum	
Flammable Solids	5 x 55 gal. drums		2-6-97		
Caustic Solids	15 x 55 gal. drums		2-6-97		
Acid Solids	3 x 55 gal. drums		2-6-97		
Mercury Lab Packs	5 x 5 gal. pails				
Hydrofluoric Acid	5 x 55 gal. drums	Dynecol, Inc. Detroit, Michigan	2-10-97	2-11-97 #104070	$100.00/drum trans. $25/drum
Hydrogen Peroxide	2 x 55 gal. drums	Dynecol, Inc. Detroit, Michigan	2-10-97	2-11-97 #104071	$425.00/drum trans. $25/drum
F006 Filter Cake	10 tons		2-10-97		

U.S. EPA DAYTON ELECTROPLATE
5001-05-411

Waste Profile/Approvals Summary

WASTE STREAM	EST. VOLUMES	DISPOSAL FACILITY	DATE PROFILED	DATE APPROVED	UNIT PRICE
PPE, General Debris Non-Hazardous	60 cubic yards	Stony Hollow RDF Dayton, Ohio	1-13-97	1-14-97 #152347	$[redacted]/cu yd
Vats, Lines, Debris, Crushed Drums	660 cubic yards	The Env. Quality Co. Belleville, Michigan		1-21-97 #012197EA	$[redacted]/yard
Non-PCB Transformers	12,000 lbs.	S.D. Meyers Tallmadge, Ohio		1-23-97 #47636	$[redacted]/lb.
Chromic Acid Solution	8,000 gallons		2-6-97		
Caustic Liquids	72,000 gallons	Dynecol, Inc. Detroit, Michigan	2-6-97	2-10-97 #3983	$[redacted]/gallon
Base/Neutral Liquids	54,000 gallons	Dynecol, Inc. Detroit, Michigan	2-6-97	2-10-97 #3984	$[redacted]/gallon
Flammable Liquids	14 x 55 gal. drums		2-6-97		
Cyanide Solids	3 x 55 gal. drums		2-6-97		
Potassium Permang.	2 x 55 gal. drums		2-6-97		
Flammable Solids	5 x 55 gal. drums		2-6-97		
Caustic Solids	15 x 55 gal. drums		2-6-97		
Acid Solids	3 x 55 gal. drums		2-6-97		
Mercury Lab Packs	5 x 5 gal. pails				
Hydrofluoric Acid	5 x 55 gal. drums	Dynecol, Inc. Detroit, Michigan	2-10-97	2-11-97 #104070	$[redacted]/drum
Hydrogen Peroxide	2 x 55 gal. drums	Dynecol, Inc. Detroit, Michigan	2-10-97	2-11-97 #104071	$[redacted]/drum
F006 Filter Cake	10 tons		2-10-97		

Dollar Amount EK.4

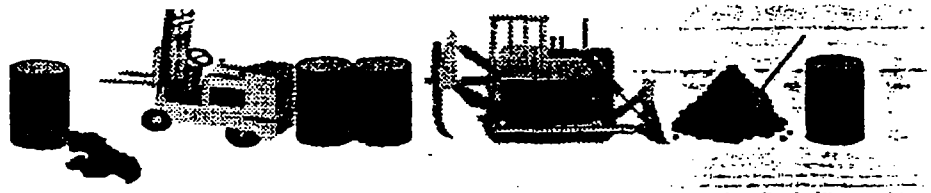
U.S. EPA DAYTON ELECTROPLATE
5001-05-411

Waste Profile/Approvals Summary

WASTE STREAM	EST. VOLUMES	DISPOSAL FACILITY	DATE PROFILED	DATE APPROVED	UNIT PRICE
PPE, General Debris Non-Hazardous	60 cubic yards	Stony Hollow RDF Dayton, Ohio	1-13-97	1-14-97 #152347	$ [redacted]/cu yd
Vats, Lines, Debris, Crushed Drums	660 cubic yards	The Env. Quality Co. Belleville, Michigan	1/16/97	1-21-97 #012197EA	$ [redacted]/yard
Non-PCB Transformers	12,000 lbs.	S.D. Meyers Tallmadge, Ohio	1/21/97	1-23-97 #47636	$ [redacted]/lb.
Chromic Acid Solution	8,000 gallons		2-6-97		
Caustic Liquids	72,000 gallons	Dynecol, Inc. Detroit, Michigan	2-6-97	2-10-97 #3983	$ [redacted]/gallon
Base/Neutral Liquids	54,000 gallons		2-6-97		
Flammable Liquids	11 [redacted] x 55 gal. drums		2-6-97		
Cyanide Solids	2 [redacted] x 55 gal. drums		2-6-97		
Potassium Permang.	2 x 55 gal. drums		2-6-97		
Flammable Solids	5 x 55 gal. drums		2-6-97		
Caustic Solids	15 x 55 gal. drums		2-6-97		
Acid Solids	3 x 55 gal. drums		2-6-97		
Mercury Lab Packs	5 x 5 gal. pails				
Hydrofluoric Acid	5 x 55 gal. drums		2-10-97		
Hydrogen Peroxide	2 x 55 gal. drums		2-10-97		
F006 Filter Cake	10 tons		2-10-97		

Dollar Amount Ex. 4

SMITH
TECHNOLOGY CORPORATION



Fax Cover Sheet

To: Steve

Company:

Phone:

Fax:

From: Todd L. Ritsema
Transportation & Disposal Coordinator
ERCS EPA Region V
Program Management Office

Company: SMITH TECHNOLOGY CORPORATION
Construction & Remediation Services
2080 S. Carboy Road
Mt. Prospect, Illinois 60056

Phone: 847-437-3408
ERCS Fax: 847-437-6064

Date: 2-11-97

Number of pages : 2

Comments:

Summary

Please fill in Profile date for EQ and S.D.
Mayes

Thank
You

SMITH
TECHNOLOGY CORPORATION

Chicago EPA Contracts Office
Memorandum

TO: **Steve Renninger, On-Scene Coordinator**

FROM: **Todd Ritsema, T & D Coordinator**

DATE: **February 11, 1997**

RE: **CERCLA Status of TSD Facilities**
Dayton Electroplate - 5001-05-411

The following facilities which received an RFP for disposal services were checked for proper CERCLA compliance with the off site rule on February 11, 1997 at 2:45 pm with Ms. Gertrude Matuschkovitz, CERCLA Off Site Policy Contact for U.S. EPA Region 5. According to Ms. Matuschkovitz, TSD facilities are inspected bi-annually or when CERCLA compliance is jeopardized by facility infractions:

Michigan Recovery Systems
Romulus, Michigan
Inspected September 10, 1996 - Acceptable

Dynecol, Inc.
Detroit, Michigan
Inspected December 12, 1996 - Acceptable

Chemical Waste Management
Vickery, Ohio
Inspected July 26, 1996 - Acceptable
*Currently under investigation by the State of Ohio for unknown infraction, but are currently approved to accept CERCLA wastes.

Envirite Corporation
Canton, Ohio
Inspected December 18, 1996 - Acceptable

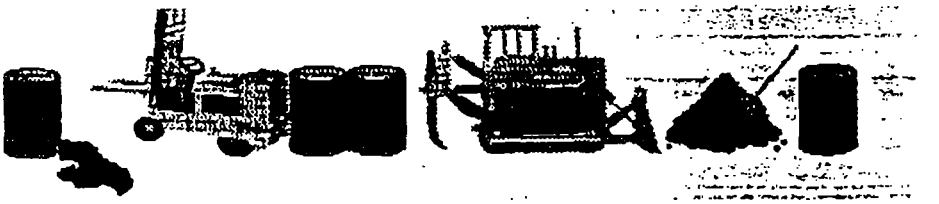
Research Environmental Industries
Cleveland, Ohio
Inspected September 17, 1996 - Acceptable
*Under investigation by the State of Ohio for improper storage of hazardous materials, but are currently approved to accept CERCLA wastes.

The Environmental Quality Company (formerly Michigan Disposal)
Belleville, Michigan
Inspected September 20, 1996 - Acceptable

Michigan Recovery Systems
Romulus, Michigan
Inspected September 10, 1996 - Acceptable

If you should have any questions or comments concerning this information please feel free to contact me in our Chicago office at (847) 437-3408.

SMITH
TECHNOLOGY CORPORATION



Fax Cover Sheet

To: Steve

Company:

Phone:

Fax:

From: Todd L. Ritsema
Transportation & Disposal Coordinator
ERCS EPA Region V
Program Management Office

Company: SMITH TECHNOLOGY CORPORATION
Construction & Remediation Services
2080 S. Carboy Road
Mt. Prospect, Illinois 60056

Phone: 847-437-3408
ERCS Fax: 847-437-6064

Date: 2-11-97

Number of pages : 3

Comments:

CERCLA Status Update

Monday 2-3-96

Dayton Electroplating 8391

Waste Stream Breakdown.

650 yds^3 (1) Plating Debris Solids
- Vats / Lines - ~~Acid Solids~~
- Empty Drums
(11) - Caustic Solids (850 cal)
(10) - Cyanide Solids (130 cal)

4,300 g/s (2) Chromic Acid / Mixed Acid Solns
HCl, H_2SO_4, HNO_3

285 g/s (3) Hydrofluoric Acid

72,000 g/s (4) Caustic Liquids

54,000 g/s (5) B/N Liquids - Nutrient Liquids
- Decon H_2O's

250 g/s (6) Flamm Solids
- grease, paint, sludge

60 g/s (7) Potassium Permanganate
D001 oxidizer

750 g/s (8) D001 Liquids - Flamm.
- Alcohols, paints, Solvent

2 drums (9) ~~[illegible]~~ Acid Oxidizing Solids

(12) LAB PACKS (13) CYLINDERS (14) PE (15) TRANS

FAX TRANSMISSION SHEET

U.S. EPA/GREEN INDUSTRIES CO.

3603 East Kemper Road
Sharonville, OH 45241

(513) 563-1092 -- U.S.EPA
(513) 563-0798 -- START (E & E)
(513) 563-1051 -- ERCS (EQM)
(513) 563-1569 -- FAX

DATE: 11-1-96 # of pages: 3 (including cover sheet)

TO: Steve Renninger

COMPANY: USEPA

FAX NO.: 216-522-2295

FROM: John Sherrard

COMMENTS: Call B. Stimple next week if you need contact names to any of these disposal facilities.

Waste Disposal Cost Bidding Summary

Green Industries Corporation
Sharonville, Ohio

Waste Description	Disposal Facilities						
	Phillip Environ. Detroit, MI	EEI Cincinnati, OH	Clean Harbors Cincinnati, OH	Heritage Indianapolis, IN	CWM Vickery, OH	InMetco Elwood City, PA	CDS Markham, Ontario
Mixed Acid Liquid	No Bid.	$[redacted]/gal Dollar Amounts Ex.4	$[redacted]/gal Dollar Amounts Ex.4	$[redacted]/gal Dollar Amounts Ex.4	$[redacted]/gal Dollar Amounts Ex.4	No Bid.	No Bid.
Sulfuric Acid Liquid	No Bid.	$[redacted]/gal Ex.4	$[redacted]/gal	No Bid.	$[redacted]/gal	No Bid.	No Bid.
Caustic Liquid	No Bid.	$[redacted]/gal	$[redacted]/gal	$[redacted]/gal	$[redacted]/gal	No Bid.	No Bid.
Caustic Sludge	No Bid.	No Bid.	No Bid.	$[redacted]/ton	No Bid.	No Bid.	No Bid.
Base Neutral Liquid	No Bid.	$[redacted]/gal	$[redacted]/gal	$[redacted]/gal	$[redacted]/gal	No Bid.	No Bid.
Hazardous Solids (plating and WWT sludge)	No Bid.	No Bid.	No Bid.	$[redacted]/yd³ bag $[redacted]/unit tax	No Bid.	No Bid.	No Bid.
Cyanide Liquid	$[redacted]/gal Dollar Amounts Ex.4 $[redacted]/drum	$[redacted]/gal	No Bid.	$[redacted]/gal $[redacted]/gal (high CN)	No Bid.	No Bid.	$[redacted]/drum Dollar Amounts Ex.4
Cyanide Solids	$[redacted]/drum $[redacted]/yd³	No Bid.	No Bid.	No Bid.	No Bid.	No Bid.	$[redacted]/drum
Hazardous Solids (plating sludge)	$[redacted]/drum $[redacted]/yd³	No Bid.	No Bid.	No Bid.	No Bid.	No Bid.	$[redacted]/drum
30% HF/Nitric Acid Liquid	$[redacted]/gal	$[redacted]/gal	No Bid.	[redacted]/gal	No Bid.	No Bid.	No Bid.
20% Chromic Acid Liquid	$[redacted]/gal	No Bid.	No Bid.	No Bid.	No Bid.	$[redacted]/gal Dollar Amounts Ex.4	No Bid.
Chrome Solids	$[redacted]/drum	No Bid.	No Bid.	No Bid.	No Bid.	No Bid.	No Bid.
Transportation and other charges	$[redacted]/load $[redacted]/drum $[redacted]/load (drum)	$[redacted]/load Profile - [redacted] ea $2 /ton - tax	$[redacted]/load $[redacted] tank wash	$[redacted]/load [redacted] /gal tax $[redacted]/load (acid) $[redacted]/box (sldg)	$[redacted]/load $[redacted]/ton tax tank clean - [redacted]	$[redacted]/load tank clean - $150	included
Demurrage	1 hr - [redacted]/hr	Pumping charge - $[redacted]/hr	1 hr. - [redacted]/hr	1 hr. [redacted]	1 hr. - [redacted]	Pumping charge - [redacted]/hr	included

(TIM LANE # 75/42 x3)

Waste Disposal Cost Bidding Summary

Green Industries Corporation
Sharonville, Ohio

Waste Description	Disposal Facilities							
	CWM Ft. Wayne, IN	Envotech Belleville, MI	Envirite Canton, OH	CWM Vickery, OH				
Hazardous Debris (F008) Dollar Amount Ex 4	$[redacted] to $[redacted] per yd³ Approval Fee - $[redacted]	$[redacted] to $[redacted] per yd³ Approval Fee - $0	No Bid.	No Bid.				
Hazardous Solids (plating and WWT sludge)	No Bid.	[redacted] /ton	$92 /ton	No Bid.				
Chrome Solids	No Bid.	[redacted] /drum	No Bid.	No Bid.				
Caustic Sludge	No Bid.	[redacted] /ton	No Bid.	No Bid.				
Nickel Liquid	No Bid.	No Bid.	No Bid.	[redacted] /gal				
				Dollar Amount Ex 4				
	Dollar Amount Ex 4	Dollar Amount Ex 4	Dollar Amount Ex 4					
Transportation and other charges	Drop Charge - [redacted] Rental - [redacted] per day $[redacted] per trip $[redacted] - Wst Appr Fee	$[redacted] /trip $[redacted] /trip (drums) [redacted] /box	[redacted] /trip	$[redacted] /load $[redacted] /ton tax tank clean [redacted]	Dollar Amount Ex 4			
Demurrage	2 hrs - [redacted]	2 hrs. - [redacted]	2 hrs. - [redacted] /hr	1 hr. [redacted]	Dollar Amount Ex 4			

FAX TRANSMISSION SHEET

U.S. EPA/GREEN INDUSTRIES CO.

3603 East Kemper Road
Sharonville, OH 45241

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(513) 563-0798 -- START (E & E)
(513) 563-1051 -- ERCS (EQM)
(513) 563-1569 -- FAX

DATE: 1-10 # of pages: 11 (including cover sheet)

TO: STEVE RENNINGER

COMPANY:

FAX NO.:

FROM: BRAD STIMPLE

COMMENTS: AS DISCUSSED. MAKE SURE TC HAS VERSION 1.1 DRUM TRAC - IF NOT I CAN GET YOU A COPY. EXAMPLE PROVIDED IS SORTED BY BULK GROUP. YOU CAN SORT BY ANYTHING INCLUDING THE COLOR OF WASTE IN THE DESCRIPTION. EQ WAS LOWEST EXPENSIVE FOR DEBRIS, CWM IN FT. WAYNE (ADAMS CENTER) WAS 2ND. WE ARE PAYING ~75/CY. TIM LANE IS THE SALES REP. EQ WILL TAKE F006 WWT SLUDGE TOO. TAT J. SHERRARD SAID HE FAXED A LIST OF OUR DISPOSAL VENDORS. CALL IF YOU NEED ANOTHER

HAVE FUN

BRAD

Vol. 1 No. 1 SUMMER 1996

U.S. EPA/ERT

Software Update

DrumTrak Version 1.1 Release

Your DrumTrak v1.1 install diskette is enclosed. The DrumTrak program is a software tool designed to assist users in the process of drum site management. DrumTrak captures all the physical drum data (e.g. type of drum, closure, layers, location, markings, etc.), processes analytical (HazCat) results, identifies waste streams, and creates bulk groups for disposal. Container disposal options and manifest information can be recorded as well. DrumTrak allows instant on-screen access to information on any drum or group of drums. Additionally, a wide variety of reports are available, ranging from a comprehensive drum inventory to detailed HazCat reports.

DrumTrak v1.1 is 100% downward compatible with DrumTrak v1.0 data. DrumTrak v1.1 enhancements include new reports such as the "Sequential Drums with Bulk Groups" report. Other enhancements include a new Phase test which allows waste streams to be separated by phase (i.e. solid, liquid and sludge).

The DrumTrak diskette contains the DrumTrak program and the user manual. The manual is available in three formats which are explained below:

1 **WordPerfect 5.1** - From the WordPerfect 5.1 program, retrieve the file named DRUMTRAK.TXT located on the DrumTrak v1.1 install disk. This file is in WordPerfect format and uses a HP Laserjet II for the default printer.

2 **Windows Write** - From the Windows Write program (usually located in the Accessories Group), open the file named DRUMTRAK.WRI located on the DrumTrak v1.1 install disk. This file is in Write format and uses a HP Laserjet II for the default printer.

3. **ASCII** - The file named DRUMASCI.TXT can be printed directly from DOS by using the print command or imported into most word processing packages. Use this format if you do not have WordPerfect 5.1 or Windows Write.

To install DrumTrak v1.1 or upgrade from DrumTrak v1.0, follow the instructions on page 1 of the manual. If you are re-installing DrumTrak, carefully follow installation instructions to ensure that current data is not overwritten or lost. If you require further assistance, technical support is available by calling:

ERT SOFTWARE SUPPORT
800-999-6990
WWW.ERT.ORG

Vol. 1 No. 2 SUMMER 1996

U.S. EPA/ERT

Software Update

DrumTrak Frequently Asked Questions (FAQ)

DrumTrak has been designed to be flexible enough to support the varying methodologies utilized in drum site management. The following highlights some key features and tips for using the program. If you are new to DrumTrak or have any questions or comments, please contact us for additional support and information to help you best utilize DrumTrak at your site.

What is the recommended Drum ID Numbering Scheme?

DrumTrak supports alpha/numeric drum IDs. In order to ensure desired sorting and reporting by drum number, it is important to implement a consistent drum numbering scheme.

Scenario: You will be tracking 1000 containers and would like to utilize a drum ID that consists of a number as well as an alpha code to identify the drum's location.

Scheme A:	Drum Id =	AD-1(**Not Recommended**) AD-2 AD-... AD-1000
Scheme B:	Drum Id =	0001-AD (Better) 0002-AD 00... 1000-AD
Scheme C:	Drum Id =	0001 **(Recommended)** 0002 00.. 0004

Note: Record the Location (i.e. AD) in the Location field.

Scheme C will result in the drum IDs sorting as expected. When running reports, you will be able to utilize the drum # range feature. Also by putting the location code (AD) in it's own field, you will be able to use the location information as a selection criteria for most DrumTrak reports.

How do I separate waste stream classifications by phase (i.e. Solid/Liquid/Sludge).

DrumTrak assigns each layer a classification based on its analytical results (i.e. ORG/NEUT). To separate waste streams by phase, DrumTrak uses a Phase test. The layer's Phase is recorded with the analytical results.

Scenario: Separate Solid waste streams from Liquid and Sludge waste streams.

Solution: Utilize DrumTrak's phase test.

For example:
a. Classification without Phase Test: ORG/NEUT
b. Classification with Phase Test: ORG/NEUT/L
(/L = Liquid)

How do I search for a particular Drum ID?

The main DrumTrak drum listing sorts by Drum ID. DrumTrak provides an incremental search to locate a particular drum. For example, keying "1050" will result in DrumTrak navigating to drum ID "1050".

Are the pH values for an ACID and BASE configurable?

Yes. DrumTrak defaults to a pH value of "3" for ACID and "11" for BASE. However, you can edit these values via DrumTrak's List Maintenance Menu.

Can I add my own HazCat tests to DrumTrak?

Yes. DrumTrak ships with a default set of standard tests. If you have a unique test that is not included, you can add HazCat tests via DrumTrak's List Maintenance Menu. Note: User defined tests can impact reporting and other DrumTrak system processes. Please limit the number of user defined tests to three or less where possible.

Can I add my own drum/container sizes to DrumTrak?

Yes. Use DrumTrak's List Maintenance menu to add and maintain your drum size pick list. You can also update personnel and location pick list data here.

How does DrumTrak calculate and report a layer's Volume?

DrumTrak calculates the volume for each drum layer based on the drum size and the size of the layer. For layer depths measured in inches, an inches per gallon factor is used to calculate the volume. DrumTrak reports all volumes in gallons.

For example:

Drum Size: 55 gallons
Layer: Bottom
Matrix: Sludge
Layer Depth: 2 Inches
Inches Per Gallon: 1.67
Layer Volume: 3.34 gallons

For a typical 55 gallon drum, the calculated inches per gallon factor is 1.67. For the above example, DrumTrak calculated a volume of 3.34 gallons.

Important: If you are recording layer depths in inches, you must update the "inches per gallon" factor for the drum sizes found on your site. You can record this information via the Drum Sizes menu option found in the List Maintenance menu.

How does DrumTrak track and report Disposed Drums?

DrumTrak provides for recording Disposal and Manifest information. As drums are disposed of, DrumTrak can be configured NOT to print disposed drums in the bulking reports. This is available through the System Configuration menu option found in the List Maintenance menu.

Can I segregate my drums by location or some other grouping mechanism I've devised?

DrumTrak provides for recording Location information for each drum. The Location code could be a general location (i.e. Warehouse) or other site specific information that will allow you to organize and group drums. Most DrumTrak reports utilize the Location code as a selection and sorting criteria.

Do I have to have a pen based computer to use Drum PAD?

No. DrumPAD can be configured to run on desktop and notebook computers running MS Windows. DrumPAD is an MS Windows application. It can be used in conjunction with DrumTrak for capturing drum log data.

Please refer to the DrumTrak user manual for additional information. The manual is included on the DrumTrak install disk in Wordperfect, Windows Write and ASCII formats.

ERT SOFTWARE SUPPORT
800-999-6990
WWW.ERT.ORG

TANKS 5-14-96

Drums by Bulking Group
Green Industries
All Drums

Bulking Group: CYANIDES (10)

Drum ID	Layer	Physical State	Color	Clarity	Drum Size	Drum Condition	Hazardous Category	Layer I
22	Top	LIQUID	TAN	CLOUDY	4600-GAL	FAIR	WS/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID	TAN	OPAQUE	4600-GAL	FAIR	WS/BASE/CYN	10 CYAI
29	Top	LIQUID	BLUE	CLEAR	600-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	SOLID	WHITE	OPAQUE	600-GAL	FAIR		NA
31	Top	LIQUID	ORANGE	CLEAR	1175-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	SOLID	ORANGE	OPAQUE	1175-GAL	FAIR		NA
39	Top	LIQUID	BROWN	OPAQUE	2450-GAL	POOR	WB/BASE/CYN	10 CYAI
45	Top	LIQUID	COLORLESS	CLEAR	300-GAL		WS/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID	WHITE	OPAQUE	300-GAL			NA
46	Top	LIQUID	YELLOW	CLEAR	300-GAL	FAIR	WS/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID	YELLOW	OPAQUE	300-GAL	FAIR		NA
47	Top	LIQUID	YELLOW	CLEAR	2300-GAL	FAIR	WB/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID	YELLOW	OPAQUE	2300-GAL	FAIR		NA
55	Top	SOLID	GRAY	OPAQUE	775-GAL	FAIR	WS/BASE/CYN	10 CYAI
76	Top	SOLID	BROWN	OPAQUE	65-GAL	FAIR	WS/BASE/CYN	10 CYAI
80	Top	SOLID	BROWN	OPAQUE	130-GAL	FAIR	WS/BASE/CYN	10 CYAI
102	Top	LIQUID	BROWN	OPAQUE	565-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	SOLID	ORANGE	OPAQUE	565-GAL	FAIR	WS/BASE/CYN	10 CYAI
103	Top	LIQUID	BROWN	OPAQUE	565-GAL	FAIR	WB/BASE/CYN	10 CYAI
	Bottom	SOLID	ORANGE	OPAQUE	565-GAL	FAIR	WB/BASE/CYN	10 CYAI
104	Top	LIQUID	ORANGE	CLEAR	275-GAL	GOOD	WB/BASE/CYN	10 CYAI
108	Top	LIQUID	YELLOW	CLEAR	650-GAL	FAIR	WB/BASE/CYN	10 CYAI
	Bottom	SOLID	YELLOW	OPAQUE	650-GAL	FAIR	WB/BASE/CYN	10 CYAI
116	Top	SOLID	GRAY	OPAQUE	500-GAL	FAIR	WB/BASE/CYN	10 CYAI
123	Top	SOLID	BROWN	OPAQUE	130-GAL	FAIR	WB/BASE/CYN	10 CYAI
131	Top	LIQUID	YELLOW	CLEAR	600-GAL	FAIR	WB/BASE/CYN	10 CYAI
	Bottom	SOLID	YELLOW	OPAQUE	600-GAL	FAIR		NA
134	Top	LIQUID	BROWN	CLEAR	350-GAL	FAIR	WB/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID			350-GAL	FAIR		NA
141	Top	LIQUID	TAN	OPAQUE	450-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	LIQUID	GRAY	OPAQUE	450-GAL	FAIR	WS/BASE/CYN	10 CYAI
159	Top	LIQUID	BROWN	OPAQUE	135-GAL	GOOD	WS/BASE/CYN/CR	10 CYAI
	Bottom	SOLID	BROWN	OPAQUE	135-GAL	GOOD	WS/BASE/CYN	10 CYAI
185	Top	LIQUID	COLORLESS	CLEAR	3800-GAL	FAIR	WS/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID			3800-GAL	FAIR		NA
198	Top	LIQUID	YELLOW	CLEAR	360-GAL	POOR	WS/BASE/CYN	10 CYAI
	Bottom	SOLID	WHITE	OPAQUE	360-GAL	POOR	WS/BASE/CYN	10 CYAI
202	Top	LIQUID	YELLOW	CLEAR	475-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	SOLID	YELLOW	OPAQUE	475-GAL	FAIR		NA
208	Top	LIQUID	YELLOW	CLEAR	500-GAL	FAIR	WS/BASE/CYN	10 CYAI
210	Top	LIQUID	WHITE	OPAQUE	550-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	SLUDGE	WHITE	OPAQUE	550-GAL	FAIR		NA
217	Top	LIQUID	BROWN	OPAQUE	240-GAL	FAIR	WS/BASE/CYN	10 CYAI
	Bottom	SOLID	TAN	OPAQUE	240-GAL	FAIR		NA
274	Top	LIQUID	YELLOW	CLOUDY	7100-GAL	POOR	WS/BASE/CYN	10 CYAI
310	Top	LIQUID	YELLOW	CLEAR	600-GAL	FAIR	WS/BASE/CR	10 CYAI
346	Top	LIQUID	YELLOW	CLEAR	3400-GAL	FAIR	WS/BASE/CYN/ZN	10 CYAI
	Bottom	SOLID	WHITE	OPAQUE	3400-GAL	FAIR	WS/BASE/CYN/ZN	10 CYAI

Bulk Group	Volume Liquid	Volume Solid
IIDES ..	230.00	0
IIDES ..	0	4370.00
IIDES ..	570.00	0
	0	30.00
IIDES ..	246.75	0
	0	458.25
IIDES ..	612.50	0
IIDES ..	202.50	0
	0	22.50
IIDES ..	135.00	0
	0	15.00
IIDES ..	1552.50	0
	0	172.50
IIDES ..	0	193.75
IIDES ..	0	65.00
IIDES ..	0	117.00
IIDES ..	50.85	0
IIDES ..	0	288.15
IIDES ..	98.88	0
IIDES ..	0	296.63
IIDES ..	275.00	0
IIDES ..	162.50	0
IIDES ..	0	162.50
IIDES ..	0	100.00
IIDES .	0	97.50
IIDES ..	605.00	0
	0	45.00
IIDES ..	252.00	0
	0	0
IIDES ..	286.88	0
IIDES ..	50.63	0
IIDES ..	33.75	0
IIDES ..	0	33.75
IIDES ..	2280.00	0
	0	570.00
IIDES ..	246.80	0
IIDES ..	0	61.20
IIDES ..	282.63	0
	0	49.88
IIDES ..	500.00	0
IIDES ..	297.00	0
	0	33.00
IIDES ..	216.00	0
	0	24.00
IIDES .	7100.00	0
IIDES ..	650.00	0
IIDES ..	1657.50	0
IIDES ..	0	892.50
Total Volume:	18193	8098

Drums by Bulking Group
Green Industries
All Drums

Bulking Group: CHROMIC ACID (55)

Drum ID	Layer	Physical State	Color	Clarity	Drum Size	Drum Condition	Hazardous Category	Layer Bulk Group	Volume Liquid	Volume Solid
14	Top	LIQUID	BROWN	OPAQUE	1400-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	1039.50	0
	Bottom	SOLID	BROWN	OPAQUE	1400-GAL	FAIR		NA	0	10.50
15	Top	LIQUID	BROWN	OPAQUE	1400-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID .	693.00	0
	Bottom	SOLID	BROWN	OPAQUE	1400-GAL	FAIR		NA	0	7.00
17	Top	LIQUID	BROWN	OPAQUE	450-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	337.50	0
18	Top	SOLID	BROWN	OPAQUE	625-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	312.50
19	Top	LIQUID	BROWN	OPAQUE	575-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	546.25	0
	Bottom	SOLID	BROWN	OPAQUE	575-GAL	FAIR		NA	0	0.00
21	Top	LIQUID	BROWN	OPAQUE	5400-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	4009.50	0
	Bottom	SLUDGE	BROWN	OPAQUE	5400-GAL	FAIR		NA	0	0.00
26	Top	LIQUID	BROWN	OPAQUE	6750-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	3375.00	0
43	Top	LIQUID	BROWN	CLEAR	100-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	300.00	0
70	Top	LIQUID	BROWN	OPAQUE	100-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	270.00	0
73	Top	LIQUID	BROWN	OPAQUE	125-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	62.50	0
201	Top	SOLID	BROWN	OPAQUE	130-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	65.00
203	Top	LIQUID	BROWN	OPAQUE	365-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	14.60	0
	Bottom	SOLID	BROWN	OPAQUE	365-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	3.65
205	Top	LIQUID	BROWN	OPAQUE	1500	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	1125.00	0
211	Top	LIQUID	BROWN	OPAQUE	1675-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	836.56	0
	Bottom	SLUDGE	BROWN	OPAQUE	1675-GAL	FAIR		NA	0	439.69
212	Top	SOLID	BROWN	OPAQUE	285-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	71.25
214	Top	LIQUID	BROWN	OPAQUE	230-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	11.50	0
218	Top	LIQUID	BROWN	OPAQUE	210-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	11.03	0
	Bottom	SLUDGE	BROWN	OPAQUE	210-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	20.48
219	Top	LIQUID	BROWN	OPAQUE	360-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	18.00	0
	Bottom	SLUDGE	BROWN	OPAQUE	360-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	18.00
222	Top	SOLID	BROWN	OPAQUE	785-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	39.25
223	Top	LIQUID	BROWN	OPAQUE	225-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	11.25	0
	Bottom	SLUDGE	BLACK	OPAQUE	225-GAL	FAIR		NA	0	11.25
224	Top	LIQUID	BROWN	OPAQUE	400-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	20.00	0
	Bottom	SOLID	BROWN	OPAQUE	400-GAL	FAIR		NA	0	20.00
228	Top	LIQUID	BROWN	OPAQUE	1200-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	1200.00	0
288	Top	SOLID	BLACK	OPAQUE	130-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	84.50
302	Top	LIQUID	BROWN	OPAQUE	275-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	68.75	0
305	Top	LIQUID	BROWN	OPAQUE	700-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	525.00	0
311	Top	SLUDGE	BROWN	OPAQUE	150-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	0	15.00
351	Top	LIQUID	BROWN	OPAQUE	340-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	17.00	0
394	Top	LIQUID	BROWN	OPAQUE	100-GAL	FAIR	WS/ACID/OX/CR	55 CHROMIC ACID ..	100.00	0
								Total volume:	14572	1118

☒ New Waste? ☐ Reapproval? *Previous Approval No.* _____ T# _____

Section A - Treatment and Disposal
(please check one)

☐ **Michigan Disposal Waste Treatment Plant**
(Waste Stabilization and Treatment)
49350 N. I-94 Service Drive
Belleville, MI 48111
Customer Satisfaction: (800) 592-5489

☐ **Michigan Recovery Systems, Inc.**
(Waste Solvent Recovery, Fuel Blending)
36345 Van Born Road
Romulus, MI 48174
Customer Satisfaction: (800) 521-0998

☐ **Wayne Disposal, Inc. – Subtitle C Landfill**
(Secure Hazardous Waste Landfill)
49350 N. I-94 Service Drive
Belleville, MI 48111
Customer Satisfaction: (800) 592-5489

Are transportation, site or special services needed?
_____ Yes X No
If yes, please explain _____

Section B - Customer Information

SIC # _____
Generator US EPA ID # OHD004760709
Generator OEPA / Green Industries
Facility Address 3603 East Kemper Rd
City Sharonville State OH Zip 45241

Mailing Address (if different) 77 W. Jackson Blvd (Attn: SJ)
City Chicago State IL Zip 60604
Generator Contact Brad Stimple
Title On Scene Coordinator
Phone (312) 886-0406 Fax (312) 353-9176

EQ Customer No. _____
Invoicing Company Environmental Quality Mgmt Inc.
Address 1310 Kemper Meadow Drive Suite 100
City Cincinnati State OH Zip 45240
Country _____
Invoicing Contact Steve Latany
Phone (800) 592-0575 Fax (513) 825-9728
Technical Contact Steve Latany
Phone Same Fax _____
Purchasing Contact Steve Schlichman

Is a Purchase Order or Release required for EQ to receive payment on this waste stream? ____Yes ____No
If yes, please list P.O. and/or Release No: _____
Is this waste stream Surcharge Exempt? X Yes ____No
If yes, Surcharge Exemption Form must be submitted with this Waste Characterization Report and with every waste shipment.

Section C - Shipping and Handling Information

1) Is this waste Reactive, Shock Sensitive, Pyrophoric, Explosive, Infectious or Radioactive? ____Yes X No
If yes, please explain and/or call 1-800-592-5489 for assistance: _____

2) Is this waste an Oxidizer? ____Yes X No

3) Shipping mode: ☒ Bulk Solid (Yd³ < 2000 lbs/yd³) ☐ Bulk Solid (Ton >2000 lbs/yd³) ☐ Bulk Liquids (gal)
☐ Cubic Yard Boxes ☐ Drums ☐ Other (palletized, 5 gallon pails, etc.) 20 yd rolloff (please explain)

4) Shipping volume per year event One time only volume _____

5) DOT shipping name RQ, Hazardous Waste Solid, n.o.s. (F006) PG III
Hazard Class 9 UN/NA Number NA 3077

Section D - Physical Characteristics

1) Color Various Odor (describe): None Free Liquids (%): 0 Solids (%): 100

2) pH Range: ☐ <2 ☐ 2 - 4.9 ☒ 5 - 9.9 ☐ 10 - 12.4 ☐ >12.5

3) Flash Point: ☐ <90 °F ☐ 90 - 140 °F ☐ >140 °F ☒ >200 °F

4) Physical state at 70 °F: ☒ Solid ☐ Dust ☐ Liquid ☐ Soil ☐ Sludge (non pumpable)

5) Does this waste contain debris? X Yes ____No
If yes, please describe Various types and sizes of debris contained in plastic wash

1) Waste common name: Plating debris

2) Provide a *detailed* description of the process(es) generating this waste (describe each step and attach a flow diagram, if available): U.S. EPA Cercla cleanup action - Former plating facility

3) Describe the composition of the waste (attach analytical data or MSDS's, if available) 0 to 20

Floor sweepings	0	to 40	%
Wood	0	to 40	%
Plastic (PVC, Pipe)	0	to 90	%
Concrete (Bricks debris)	0	to 40	%
Misc. Metal objects	0	to 10	%
Cardboard	0		
Glass		20 Total = 100 %	

4) Based upon RCRA waste regulations (40 CFR 261), Michigan Act 451 Rules, and TSCA regulations:

		Yes	No	Code or Comment
A)	Is this an EPA RCRA hazardous waste (D, F, K, U or P)?	X		F008
B)	Does this waste leach Copper>100 mg/l or Zinc>500 mg/l?		X	
C)	Is this an EPA RCRA Characteristic (D-coded) hazardous waste containing underlying hazardous constituents? If yes, please fill out UTS Certification Form provided.		X	
D)	Is this a Michigan Act 451 nonhazardous liquid waste?		X	
E)	Is this a Michigan Act 451 hazardous waste?		X	
F)	Does this waste exceed LDR treatment standards?	X		
G)	Does this waste contain free liquids? (use paint filter test)		X	
H)	Does this waste contain metallic fines or powders?		X	
I)	Does this waste contain greater than or equal to 500 ppmw VOC?		X	
J)	Does this waste contain reactive cyanide above 250 ppm or reactive sulfide above 500 ppm?		X	
K)	Is this a dioxin or furan bearing waste as per 40 CFR part 261.31?		X	
L)	Does this waste contain HOCs >1000 ppm?		X	
M)	Is this a liquid waste containing Nickel >134 mg/l or Thallium >180 mg/l?		X	
N)	Does this waste contain asbestos?(friable or nonfriable?)		X	
O)	Does this waste contain biodegradable sorbents?		X	
P)	Is this a PCB waste regulated by TSCA? If yes, please complete Section G.		X	

Section F - Reclamation/Recycling/Fuel Blending

(Complete for Michigan Recovery Systems, Inc. Only)

1) Heat value (BTU/lb): _____ 3) Chlorine(%): _____ 5) PCBs (total ppm): _____

2) Water (%): _____ 4) Solids (%): _____

Section G - PCB

(Complete only if you answered "yes" to Section E, Question 4P)

1) Does the waste contain PCBs at >50 ppm or is the PCB contamination from a source with concentration of >50 ppm? _____Yes _____No

2) Does this waste contain free liquids? (use paint filter test) _____Yes _____No

3) Is the non-liquid PCB waste in the form of soil, rags, or other debris? _____Yes _____No

4) Do the PCB capacitors come from a PCB capacitor or equipment manufacturer? _____Yes _____No _____NA

5) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? _____Yes _____No

Section H - TCLP Regulatory Action Levels Certification

Please indicate which constituent concentrations are below the regulatory level in column 1 or write in the actual level if the concentration is greater than the regulatory level in column 2:

Based on: ☐Analysis ☒Generator Knowledge (Is analysis attached? ___Yes X No)

Code		(1) Concentration (mg/l)		(2) Actual Concentration	Code		(1) Concentration (mg/l)		(2) Actual Concentration
D004	Arsenic		<5		D023	O-Cresol		<200	
D005	Barium		<100		D024	M-Cresol		<200	
D006	Cadmium		<1		D025	P-Cresol		<200	
D007	Chromium		<5		D026	Cresols		<200	
D008	Lead		<5		D027	1,4-Dichlorobenzene		<7.5	
D009	Mercury		<0.2		D028	1,2-Dichloroethane		<0.5	
D010	Selenium		<1		D029	1,1-Dichloroethylene		<0.7	
D011	Silver		<5		D030	2,4-Dinitrotoulene		<0.13	
001D	Copper		<100		D031	Heptachlor		<0.008	
003D	Zinc		<500		D032	Hexachlorobenzene		<0.13	
D012	Endrin		<0.02		D033	Hexachlorobutadiene		<0.5	
D013	Lindane		<0.4		D034	Hexachloroethane		<3.0	
D014	Methoxychlor		<10		D035	Methyl Ethyl Ketone		<200	
D015	Toxaphene		<0.5		D036	Nitrobenzene		<2	
D016	2,4-D		<10		D037	Pentachlorophenol		<100	
D017	2,4,5-TP(silvex)		<1		D038	Pyridine		<5	
D018	Benzene		<0.5		D039	Tetrachloroethylene		<0.7	
D019	Carbon-Tetrachloride		<0.5		D040	Trichloroethylene		<0.5	
D020	Chlordane		<0.03		D041	2,4,5-Trichlorophenol		<400	
D021	Chlorobenzene		<100		D042	2,4,6-Trichlorophenol		<2	
D022	Chloroform		<6.0		D043	Vinyl Chloride		<0.02	

Section I - Benzene NESHAP 40 CFR 61, subpart FF

1) Does the waste stream come from a facility with one of the SIC codes listed under the NESHAP?
_____Yes X No If yes, which SIC Number?_____________

2) Does the waste contain >10 % water? _____Yes X No

3) Does the waste contain >1.0 mg/kg total Benzene? _____Yes X No

If no to Question 3, stop here. *If yes, please answer the remaining questions.*

4) What is the total Benzene concentration in your waste? percent or ___________ ppmw.
(Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602, and 624.)

5) Does your company treat wastes from facilities with Total Annual Benzene (TAB) >10 Mg/year? _____Yes _____No

6) What is the TAB quantity for your facility? _______________ Mg/Year

NESHAP SIC CODES		
2812	2836	2875
2813	2841	2879
2816	2842	2891
2819	2843	2892
2821	2844	2893
2822	2851	2895
2823	2861	2899
2824	2865	2911
2833	2869	3312
2834	2873	4959
2835	2874	9511

Section J - Certification

I authorize EQ's Resource Team to add supplemental information to the waste approval file provided I am contacted and give verbal permission. I authorize EQ's Resource Team to obtain a sample from any waste shipment for purposes of verification and confirmation.

I certify that all information (including attached information) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to the waste described herein.

Signature Brad Stpl Title USEPA-OSC

Printed Name BRAD STIMPLE Date 5-15-96

Company USEPA

[redacted]

FAX TRANSMISSION SHEET

U.S. EPA/GREEN INDUSTRIES CO.

3603 East Kemper Road
Sharonville, OH 45241

(513) 563-1092 -- U.S.EPA
(513) 563-0798 -- START (E & E)
(513) 563-1051 -- ERCS (EQM)
(513) 563-1569 -- FAX

DATE: 1-10 # of pages: 9 (including cover sheet)

TO: STEVE RENNINGER

COMPANY:

FAX NO.:

FROM: BRAD STIMPLE

COMMENTS: AS DISCUSSED. MAKE SURE TC HAS VERSION 1.1 DRUM TRAC - IF NOT I CAN GET YOU A COPY. EXAMPLE PROVIDED IS SORTED BY BULK GROUP. YOU CAN SORT BY ANYTHING INCLUDING THE COLOR OF WASTE IN THE DESCRIPTION. EQ WAS LOWEST EXPENSIVE FOR DEBRIS, CWM IN FT. WAYNE (ADAMS CENTER) WAS 2ND. WE ARE PAYING ~75/CY. TIM LANE IS THE SALES REP. EQ WILL TAKE FOOD WASTE SLUDGE TOO. TAT J. SHEKRAD SAID HE FAXED A LIST OF OUR DISPOSAL VENDORS. CALL IF YOU NEED ANOTHER

HAVE FUN

BRAD

Vol. 1 No. 1 SUMMER 1996

U.S. EPA/ERT

Software Update

DrumTrak Version 1.1 Release

Your DrumTrak v1.1 install diskette is enclosed. The DrumTrak program is a software tool designed to assist users in the process of drum site management. DrumTrak captures all the physical drum data (e.g. type of drum, closure, layers, location, markings, etc.), processes analytical (HazCat) results, identifies waste streams, and creates bulk groups for disposal. Container disposal options and manifest information can be recorded as well. DrumTrak allows instant on-screen access to information on any drum or group of drums. Additionally, a wide variety of reports are available, ranging from a comprehensive drum inventory to detailed HazCat reports.

DrumTrak v1.1 is 100% downward compatible with DrumTrak v1.0 data. DrumTrak v1.1 enhancements include new reports such as the "Sequential Drums with Bulk Groups" report. Other enhancements include a new Phase test which allows waste streams to be separated by phase (i.e. solid, liquid and sludge).

The DrumTrak diskette contains the DrumTrak program and the user manual. The manual is available in three formats which are explained below:

1. **WordPerfect 5.1** - From the WordPerfect 5.1 program, retrieve the file named DRUMTRAK.TXT located on the DrumTrak v1.1 install disk. This file is in WordPerfect format and uses a HP Laserjet II for the default printer.

2. **Windows Write** - From the Windows Write program (usually located in the Accessories Group), open the file named DRUMTRAK.WRI located on the DrumTrak v1.1 install disk. This file is in Write format and uses a HP Laserjet II for the default printer.

3. **ASCII** - The file named DRUMASCI.TXT can be printed directly from DOS by using the print command or imported into most word processing packages. Use this format if you do not have WordPerfect 5.1 or Windows Write.

To install DrumTrak v1.1 or upgrade from DrumTrak v1.0, follow the instructions on page 1 of the manual. If you are re-installing DrumTrak, carefully follow installation instructions to ensure that current data is not overwritten or lost. If you require further assistance, technical support is available by calling:

ERT SOFTWARE SUPPORT
800-999-6990
WWW.ERT.ORG

Vol. 1 No. 2 SUMMER 1996

U.S. EPA/ERT

Software Update

DrumTrak Frequently Asked Questions (FAQ)

DrumTrak has been designed to be flexible enough to support the varying methodologies utilized in drum site management. The following highlights some key features and tips for using the program. If you are new to DrumTrak or have any questions or comments, please contact us for additional support and information to help you best utilize DrumTrak at your site.

What is the recommended Drum ID Numbering Scheme?

DrumTrak supports alpha/numeric drum IDs. In order to ensure desired sorting and reporting by drum number, it is important to implement a consistent drum numbering scheme.

Scenario: You will be tracking 1000 containers and would like to utilize a drum ID that consists of a number as well as an alpha code to identify the drum's location.

Scheme A:	Drum Id =	AD-1(**Not Recommended**) AD-2 AD-... AD-1000
Scheme B:	Drum Id =	0001-AD (Better) 0002-AD 00... 1000-AD
Scheme C:	Drum Id =	0001 **(Recommended)** 0002 00.. 0004

Note: Record the Location (i.e. AD) in the Location field.

Can I add my own drum/container sizes to DrumTrak?

Yes. Use DrumTrak's List Maintenance menu to add and maintain your drum size pick list. You can also update personnel and location pick list data here.

How does DrumTrak calculate and report a layer's Volume?

DrumTrak calculates the volume for each drum layer based on the drum size and the size of the layer. For layer depths measured in inches, an inches per gallon factor is used to calculate the volume. DrumTrak reports all volumes in gallons.

For example:

Drum Size: 55 gallons
Layer: Bottom
Matrix: Sludge
Layer Depth: 2 Inches
Inches Per Gallon: 1.67
Layer Volume: 3.34 gallons

For a typical 55 gallon drum, the calculated inches per gallon factor is 1.67. For the above example, DrumTrak calculated a volume of 3.34 gallons.

Important: If you are recording layer depths in inches, you must update the "inches per gallon" factor for the drum sizes found on your site. You can record this information via the Drum Sizes menu option found in the List Maintenance menu.

How does DrumTrak track and report Disposed Drums?

DrumTrak provides for recording Disposal and Manifest information. As drums are disposed of, DrumTrak can be configured NOT to print disposed drums in the bulking reports. This is available through the System Configuration menu option found in the List Maintenance menu.

Can I segregate my drums by location or some other grouping mechanism I've devised?

DrumTrak provides for recording Location information for each drum. The Location code could be a general location (i.e. Warehouse) or other site specific information that will allow you to organize and group drums. Most DrumTrak reports utilize the Location code as a selection and sorting criteria.